## **Claims**

## What is claimed is:

- 1. A suspension product for reducing wetness under the arm which product comprises in % by weight based on the entire weight of the product:
- (a) 0.01-20 weight % of a superabsorbent polymer selected from the group consisting of a polyacrylate homopolymer (sodium salt) and starch graft copolymers of poly(2-propenamide-co-2-propenioic acid) (sodium salt), with a water absorbing capacity of about 10-1000 g water/g superabsorber as measured in the absence of added salt;
- (b) 0.05-2.0 weight % of a sesquiterpene material selected from the group consisting of: (i) a sesquiterpene alcohol; (ii) an essential oil containing at least 5% of a sesquiterpene alcohol; or (iii) a combination of (i) and (ii), provided that the level of sesquiterpene alcohol in the final product is at least 0.05% of the total formula;
- (c) 0.05-10 weight % of a small particle size zinc oxide having a particle size range of 0.02-200 microns;
- (d) 2-88 weight % of a volatile silicone having a flash point of 100 degrees C or less;
- (e) 0-5 weight % of a surfactant with a hydrophilic/lipophilic balance in the range of 3-13;
  - (f) 0-5 weight % of an antiperspirant active;
- (g) 0-20 weight % of a nonvolatile silicone having a flash point greater than 100 degrees C; and
  - (h) 0-20 weight % of an emollient;
  - (i) 0-5 weight % of a fragrance; and
- (j) 0-5 weight % of an encapsulated fragrance; provided that:
- (A) if the product is stick or soft solid, the product further comprises a gelling agent selected from the group consisting of 5-30 weight % stearyl alcohol; 0.1-10 weight % (on an actives basis) silicone elastomer; 0.1-20 weight % waxes; 1-3 weight %

siliconized polyamides; 1-20 weight % low molecular weight polyethylene having a molecular weight in the range of 400-1000; and combinations of the foregoing;

- (B) if the product is an aerosol, the product further comprises 30-90 weight % of a propellant selected from the group consisting of (i) a hydrocarbon, (ii) dimethyl ether, (iii) a hydrofluorocarbon and (iv) mixtures of one or more of (i)-(iii);
- (C) if the product is a roll-on or pump spray, the product further comprises 1-15% of a suspending agent selected from the group consisting of:
  - (i) colloidal silica with a particle size in the range of 2-100 microns;
- (ii) clays selected from the group consisting of montmorillonite clays and hydrophobically treated montmorillonite clays, where the clays have a particle size in the range of 50-10,000 nanometers;
- (iii) magnesium aluminum silicates with a particle size in the range of 0.1-50 microns; and
  - (iv) mixtures of any of (i)-(iii).
- 2. A product as claimed in Claim 1 comprising 0.1-10 % of the superabsorbent polymer.
- 3. A product as claimed in Claim 1 comprising 0.1-1.5 % of a sesquiterpene containing material.
- 4. A product as claimed in Claim 1 or 3 wherein the sesquiterpene material is a sesquiterpene alcohol selected from the group consisting of:
- (i) a cyclic sesquiterpene alcohol selected from the group consisting of:

 $8-\alpha$ -acetoxyelemol,

β-acoradienol,

α-acorenol,

β-acorenol,

cis-artenuic alcohol,

β-biotol,

α-bisabolol,

```
β-bisabolol,
bicyclovitivenol,
β-bisabolenol,
bulensol,
\alpha-cadinol,
epi-α-cadinol,
carotol,
caryophyllene alcohol,
14-hydroxy-9-epi-e-caryophyllene,
5-neo-cedranol,
8-cedren-13-ol,
cedr-8(15)en-9-\alpha-ol,
cedrol,
epi-cedrol,
β-copaen-4-α-ol,
cryptomeridiol,
cubebol,
cubenol,
1-epi-cubenol,
1,10-di-epi-cubenol,
cycloisolongifol-5-ol, dihydrocadinol (1,6-dimethyl-4-iso-propyl-decahydronapthylene)
drimenol,
elemol,
epi-globulol,
α-eudesmol,
β-eudesmol,
γ-eudesmol,
7-epi-α-eudesmol,
10-epi-γ-eudesmol,
dihydro-eudesmol,
germacrene D-4-ol,
```

```
gleenol,
guaiol,
globulol,
gossonorol,
hexahydrofarnesol (2,6,10-trimethyldodecanol), himachalol,
hinesol,
14-hydroxy-\alpha-humulene,
14-hydroxy-α-muurolene,
5-isocedranol,
isolongifolan-7-\alpha-ol, isolongifolol, khusinol,
ledol,
z-lancetol,
longiborneo,
longifolol,
longipinanol,
cis-muurol-5-en-4-\beta-ol, cis-muurol-5-en-4-\alpha-ol, \alpha-muurolol,
epi-α-muurenol,
occidentalol,
trans-dihydro-occidentalol, occidol,
e-nuciferol,
patchouli alcohol,
e-β-santalol,
z-\alpha-santalol,
z-β-santalol,
β-santalol,
cis-sesquisabinene hydrate,
trans-sesquisabinene hydrate,
z-sesquilavandulol,
selin-11-en-4-\alpha-ol,
spirosantalol spathulenol,
```

```
thujopsan-2-\alpha-ol,
thujopsan-2-β-ol,
turmenol,
valerianol,
viridiflorol,
vitiverol widdrol,
bicyclo-vetiverol, and
tricyclovetiverol; and
(ii) an acyclic sesquiterpene alcohol selected from the group consisting of:
dihydrofarnesol, z,z-farnesol,
e,e-farnesol,
e,z-farnesol,
e-nerolidol,
z-nerolidol,
e-sesquilavandulol,
and tetrahydrofarnesol; and
```

- (iii) a member of the group consisting of sesquiterpene alcohols that have an anti-inflammatory effect as indicated by the ability either in-vitro in a cell culture assay or in-vivo to (A) inhibit prostaglandin cyclooxygenase-I (COX-1), prostaglandin cyclooxygenase-II (COX-II) in-vitro or in-vivo; or (B) the ability to inhibit phospholipase activity, interlukin-1β (Il-1β) or interlukin-4 (Il-4).
- 5. A product as claimed in Claim 1 wherein the sesquiterpene material is member of the group consisting of: dihydrofarnesol, z,z-farnesol, e,e-farnesol, e,z-farnesol, e-nerolidol, z-nerolidol, e-sesquilavandulol, and tetrahydrofarnesol.
- 6. A product as claimed in Claim 1 wherein the sesquiterpene material is an essential oil.

- 7. A product as claimed in Claim 6 wherein the essential oil is selected from the group consisting of: Patchouli wood oil, Sandalwood oil, Grapefruit oil, Lemongrass oil, Cedarwood oil, and Guiac wood oil.
- 8. A product as claimed in Claim 1 comprising 0.1-5% of the small particle zinc oxide.
- 9. A product as claimed in Claim 1 wherein the volatile silicone is a member of the group consisting of hexamethyl disiloxane, D4 cyclomethicone, D5 cyclomethicone, D6 cyclomethicone, and mixtures of any of the foregoing.
- 10. A product as claimed in Claim 1 comprising 3-13 weight % of the surfactant.
- 11. A product as claimed in Claim 1 further comprising a gelling agent selected from the group consisting of 5-30 weight % stearyl alcohol; 0.1-10 weight % (on an actives basis) silicone elastomer; 0.1-20 weight % waxes; and 0.1-20 weight % low molecular weight polyethylene having a molecular weight in the range of 400-1000.
- 12. A product as claimed in Claim 1 further comprising 1-3% of a gelling agent selected from the group consisting of a siliconized polyamide of Formula IIIA:

$$R^{1}$$
  $R^{2}$  | | -[C(O)-X-[SiO]\_DPSi-X-C(O)NH-Y-NH]\_n- | | R<sup>3</sup>  $R^{4}$ 

Formula IIIA

where:

- (1) degree of polymerization is a number in the range of 10-40;
- (2) n is a number selected from the group consisting of 1-500;
- (3) X is a linear or branched chain alkylene having 1-30 carbons;
- (4) Y is selected from the group consisting of linear and branched chain alkylenes having 1-40 carbons, wherein:

- (A) the alkylene group may optionally and additionally contain in the alkylene portion at least one of the members of a group consisting of (i) 1-3 amide linkages; (ii) C5 or C6 cycloalkane (as a cycloalkylene linkage); and (iii) phenylene optionally substituted by 1-3 members selected independently from the group consisting of C1-C3 alkyls; and
- (B) the alkylene group itself may optionally be substituted by at least one member selected from the group consisting of (i) hydroxy; (ii) C3-C8 cycloalkyl; (iii) 1-3 members selected independently from the group consisting of C1-C3 alkyls; phenyl optionally substituted by 1-3 members selected independently from the group consisting of C1-C3 alkyls; (iv) C1 C3 alkyl hydroxy; and (v) C1 C6 alkyl amine; or Y =  $Z^2$  where

$$Z^2 = R^{20} - T - R^{21} -$$

$$|$$

$$R^{22}$$

wherein each of R<sup>20</sup>, R<sup>21</sup> and R<sup>22</sup> are independently selected from the group consisting of linear and branched C1-C10 alkylenes; and T is selected from the group consisting of (i) a trivalent atom selected from N, P and Al; and (ii) -CR, where R is selected from the group consisting of hydrogen, methyl, ethyl, propyl, isopropyl, a siloxane chain, and phenyl, wherein the phenyl may optionally be substituted by 1-3 members from the group consisting of methyl and ethyl; and

- (5) each of R<sup>1</sup> R<sup>4</sup> is independently selected from the group consisting of methyl, ethyl, propyl, isopropyl, a siloxane chain, and phenyl, wherein the phenyl may optionally be substituted by 1-3 members from the group consisting of methyl and ethyl; wherein the polyamide of Formula IIIA has:
  - (i) a silicone portion in the acid side of the polyamide;
  - (ii) a degree of polymerization in the range of 10-40;
  - (iii) an average molecular weight of at least 50,000 daltons with at least 95% of the polyamide having a molecular weight greater than 10,000 daltons; and
  - (iv) a polydispersity of less than 20.

- 13. A product as claimed in Claim 1 further comprising 0.05-50 weight % of a silicone copolyol which is 10% in cyclomethicone, or its equivalent.
- 14. A product as claimed in Claim 1 further comprising further comprising 1-3 weight % of an aluminum or aluminum/zirconium antiperspirant salt.
- 15. A product as claimed in Claim 1 further comprising particularly 5-10% of a nonvolatile silicone having a flash point greater than 100 degrees C.
- 16. A product as claimed in Claim 1 further comprising 2-12 % of an emollient.
- 17. A product as claimed in Claim 16 wherein the emollient is selected from the group consisting of C12-15 alkyl benzoate, PEG-8 distearate, PPG-3-myristyl ether, and polyisobutene 250.
- 18. A product as claimed in any one of Claims 1-17 which is free of one or more of surfactant, antiperspirant active, non-volatile silicone, fragrance and microencapsulated fragrance.
- 19. A product as claimed in any one of Claims 1-17 which is free of antiperspirant actives selected from the group consisting of aluminum and aluminum/zirconium salts.
- 20. A product as claimed in Claim 1 wherein the product is a stick and comprises:
- (a) 8-25 weight % of the superabsorbent polymer;
- (b) 0.05-10 weight % of the sesquiterpene material;
- (c) 0.05-10 weight % of the small particle size zinc oxide;
- (d) 10-25 weight % of the gellant;
- (e) 40-70 weight % of the volatile silicone;
- (f) 0-15 weight % of a non-volatile silicone which is a dimethicone having a viscosity in the range of 6-1000 centistokes;

- (g) 2-10 weight % of an emollient selected from the group consisting of polyisobutene, and C12-15 alkyl benzoates;
- (h) 0-5 weight % fragrance;
- (i) 0-5 weight % of a microencapsulated fragrance;
- (j) 0-10 weight % of a surfactant; and
- (k) less than 2 weight % water.
- 21. A product as claimed in Claim 1 wherein the product is a soft solid and comprises:
- (a) 70-99.94 weight % of the silicone elastomer;
- (b) 0.01-30 weight % of the superabsorbent;
- (c) 0.05-10 weight % of the sesquiterpene material;
- (d) 0.05-10 weight % of the small particle size zinc oxide;
- (e) 0-5 weight % of a fragrance;
- (f) 0-5 weight % of a microencapsulated fragrance; and
- (g) less than 2 weight % water.
- 22. A product as claimed in Claim 1 wherein the product is a roll-on or pump spray and comprises:
- (a) 0-80 weight % of the volatile silicone;
- (b) 0-50 weight % of the silicone elastomer;
- (c) 0-80 weight % of the non-volatile silicone which is a dimethicone having a viscosity in the range of 6-1000 centistokes;
- (d) 0.01-30 weight % of the superabsorbent;
- (e) 0.05-10 weight % of the sesquiterpene material;
- (f) 0.05-10 weight % of the small particle size zinc oxide;
- (g) 0-5 weight % fragrance;
- (h) 0-5 weight % of a microencapsulated fragrance;
- (i) 1-10% of a suspending agent; and
- (j) less than 2 weight % water.

- 23. A product as claimed in Claim 1 wherein the product is an aerosol and comprises:
- (a) 30-80 weight % of the volatile silicone;
- (b) 30-90% of an aerosol propellant;
- (c) 0.01-30 weight % of the superabsorbent;
- (d) 0.05-10 weight % of the sesquiterpene material;
- (e) 0.05-10 weight % of the small particle size zinc oxide;
- (f) 0-5 weight % fragrance;
- (g) 0-5 weight % of a microencapsulated fragrance;
- (h) 1-10% of a suspending agent; and
- (i) less than 2 weight % water.